APPENDIX M - Preparation Guidelines for Project Report (Safety Roadside Rest Area)

Safety Roadside Rest Area Rehabilitation New Safety Roadside Rest Area Auxiliary Parking Facility Safety Roadside Rest Area Closure

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APPENDIX M - Preparation Guidelines for Project Report (Safety Roadside Rest Area)

ARTICLE 1 - Overview

Use of Project Report

These guidelines provide an outline to be used with the procedures described in Chapter 29 of the *Project Development Procedures Manual* for "Safety Roadside Rest Area" projects. All Safety Roadside Rest Area (SRRA) projects funded from the 20.XX.201.250 (SRRA Restoration,) program or 20.XX.201.260 (New SRRA) program require a Project Report (PR).

The PR-SRRA is used as the primary project reference document by both Headquarters and the District. The need for accurate and complete project information is essential. The District is responsible for the development and presentation of all data required for the PR-SRRA.

ARTICLE 2 - Item-by-Item Guidelines for PR-SRRA Outline

Report Format

The PR-SRRA is prepared and submitted following the Outline at the end of this Appendix. The data required is to be provided under the following headings, and arranged and numbered in the sequence shown in the Outline. The following headings correspond to specific topics that are to be discussed in the submittal.

Cover Sheet

All PR-SRRAs should have a standard cover sheet to provide project identification information and signatures. Information to be provided includes the following:

- Title
 - "Project Report Safety Roadside Rest Area Rehabilitation",
 - "Project Report New Safety Roadside Rest Area",
 - "Project Report Auxiliary Parking Facility" or
 - "Project Report Safety Roadside Rest Area Closure"

• File Reference

<u>District-County-Route-Kilometer Post {Post Mile} [Dist-Co-Rte-KP {PM}]</u> The Kilometer Post {Post Mile} should be given to the nearest 0.1 km; {0.1 mile}; if the project is 0.2 km {0.2 mile} or more in length, give both the beginning and ending.

Responsible Unit (RU)

The unit source code of the licensed landscape architect or engineer in responsible charge of the technical features of the project.

Expenditure Authorization (EA)

The multiphase EA, using the "0" phase for the project.

Program Identification

Program Identification indicates which program will fund this task/phase of the project. Currently, SRRA projects are funded in the SHOPP. The SHOPP code for the development of PRs for SRRA Rehabilitation and SRRA Closure Projects is 20.XX.201.250; and 20.XX.201.260 for New SRRA and Auxiliary Parking Facilities Projects.

•	on Route	From ing Facility), or	_ To		(for New SRRA or
	On Route(for Rehabilita	, at the tion or Closure)		_ Safe	ty Roadside Rest Area

Provide a brief written description of the project limits that corresponds to Kilometer Posts {Post Mile} given above and ties the limits to commonly known physical features on the ground that can be identified on available mapping.

Vicinity Map

Provide a small map showing the project limits consistent with the brief description and Kilometer Posts {Post Miles}, and a north arrow. The map should be sufficient to locate the project at a glance for a person unfamiliar with the project. It should show the features used to identify the project limits such as roads, streams, junctions or railroads, and the nearest town (unless too distant), and a note indicating the direction to and name of the next town in each direction.

• Right of Way Statement

Provide a statement signed by the District Division Chief of Right of Way indicating the review of the right of way information contained in the PR-SRRA and the right of way data sheet attached to it, and a finding that the data is complete, current and accurate.

Approval Recommended

The recommendation for approval signed by the Project Manager {PM}, the District Landscape Architect, and District Maintenance indicating concurrence with the project scope and cost.

Approval

Approval of the PR-SRRA recommendations is indicated when signed and dated by the District Director or by a District Division Chief to whom that authority has been officially delegated. The date of signature becomes the official date for project approval.

Licensed Landscape Architect's Stamp and Statement

The second page of the PR-SRRA contains the required seal or stamp and signature of a licensed landscape architect who is the person in responsible charge of the landscape features. The sheet must include a statement indicating that the licensed landscape architect attests to the technical information contained herein and the data upon which recommendations, conclusions, and decisions are based. Approval of the PR-SRRA is a management decision and is separate from this technical signature of the person in responsible charge of the landscape features.

Registered Civil Engineer's Stamp and Statement

The second page of the PR-SRRA also contains the required seal or stamp and signature of a registered civil engineer who is the person in responsible charge of the engineering features. The sheet must include a statement indicating that the registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based. Approval of the PR-SRRA is a management decision and is separate from this technical signature of the person in responsible charge of the engineering features.

1. INTRODUCTION

A. Type of Project

Describe the type of project. Provide a description of the complete scope of work. Examples are: new unit; upgrade of existing unit; correct ADA deficiencies; two units (north and southbound); one unit serving both directions, etc.

B. Scope of Work

Provide a brief description of the scope of work. Include the number of hectares {acres} if it's a New SRRA or Auxiliary Parking Facility.

C. Project Cost Estimate

Provide the current project cost estimate for the complete project. Contact DES Office of Transportation Architecture to obtain cost information for the building.

D. Program Year and Source of Funding

For projects in the State Highway Operation and Protection Program (SHOPP), use 20.XX.201.250 for SRRA Rehabilitation or SRRA Closure Projects; and 20.XX.201.260 for New SRRA or Auxiliary Parking Facilities Projects.

2. RECOMMENDATION

Give a recommendation for approval. If cooperative features are described, recommend that the cooperative features be approved and a cooperative agreement be negotiated.

3. BACKGROUND

Rehabilitation

Update the information provided in the PSR.

- Describe why this project was initiated.
- Indicate the type of highway, access control, climate, seasonal road conditions, and use of rest area by trucks and busses. Describe existing parking capacity for cars and long vehicles as well as geometrics of existing ramps, merge and diverge areas.
- Briefly describe the type, age and condition of the comfort station(s) and other major facilities. Describe the condition of the site and amenities (e.g., utilities, ramps, parking, lighting, architecture, walks, and landscape).
- Provide the date of initial construction and any subsequent improvement projects.
- Describe who maintains the rest area and the annual cost.
- Identify and describe the characteristic architectural style of the surrounding community for the purpose of developing context appropriate design.
- Discuss any commitments made to local officials, private organizations, or other groups or individuals. Discuss any outside support or opposition to the project.
- Discuss existing or planned vending operations at this SRRA.
- Indicate conformance with SRRA Master Plan.

New SRRAs and Auxiliary Parking Facilities

Update the information provided in the PSR.

- Describe why this project was initiated.
- Discuss distances to nearby SRRAs, other stopping opportunities, and conformance with the SRRA Master Plan.
- Indicate the type of highway, access control, climate and seasonal road conditions.
- Discuss site feasibility including the availability and adequacy of potable water, electrical power and waster water treatment; ingress/egress to the site; and scenic value.
- Identify and describe the characteristic architectural style of the surrounding community for the purpose of developing context appropriate design.
- Address the feasibility of development and operational partnerships.

Closure

Update the information provided in the PSR.

- Indicate the type of highway, access control, climate and seasonal road conditions.
- Briefly describe the type, age and condition of the existing rest area facilities including the comfort station(s), utilities, ramps, parking, lighting, walkways and landscape.
- Provide the date of initial construction and any subsequent improvement projects.
- Describe who maintains the rest area and the annual cost.
- Describe any existing vending operation at this SRRA.

4. CAPACITY ANALYSIS/DESIGN GUIDELINES (for all projects)

Consult with the appropriate units to update the Design Data Sheet submitted in the PSR. Although these sheets will give a reasonable estimate of the numbers of required facilities, the requirements should be carefully analyzed and adjusted, if necessary, to meet the needs of the specific site. Include a brief discussion of the guidelines used in determining the number of required facilities. Refer to the *Highway Design Manual*, *Topic 903.5*, "Facilities and Features".

5. NEED AND PURPOSE

Rehabilitation

Update information from the PSR. Identify the problems, needs and/or deficiencies that necessitate this project. Consult with the Office of Transportation Architecture in DES for building deficiencies. Supplement, as appropriate, with maps, drawings, charts, tables and/or letters. Below is a checklist of potential deficiencies to consider:

- Compliance with legal or regulatory requirements (e.g., Americans With Disabilities Act (ADA), Cal-OSHA, health department, Water Quality Control Board).
- Safety and security (safe walks, lighting, signs, CHP facilities, surveillance cameras). Describe contacts with CHP.
- Maintainability and vandalism.
- Parking capacity as well as geometrics of existing ramps, merge and diverge areas.
- Rest room capacity.
- Accident history for rest area and route segment 15 km {10 miles} in each direction.
- Unauthorized shoulder, roadside, and community parking.
- User amenities including trash bins, picnic tables & shelters, benches, water faucets, restroom fixtures, landscaping, traveler information kiosks, vending and other site amenities.

New SRRAs and Auxiliary Parking Facilities

Update information from the PSR. Identify the problems, needs and/or deficiencies that necessitate this project. Supplement, as appropriate, with maps, drawings, charts, tables and/or letters. Include in your discussion:

- Parking deficiencies at adjacent rest areas.
- Unauthorized parking on shoulders, roadsides or in the adjacent community.
- Accident history for route segment 15 km {10 miles} in each direction from the proposed location.
- Physical or environmental limitations on expanding adjacent rest areas.
- Gap in rest area spacing.

Closure

Update information from the PSR. Identify the problem, need and justification for closure. Consider the following:

- Mainline and ramp traffic volumes, and vehicle types (automobiles, commercial trucks, busses) for the subject SRRA and the adjacent SRRAs.
- Current and 20-year projected rest area usage (vehicles and number of users) for subject and adjacent SRRA.
- Unauthorized parking on shoulders, roadsides or in the adjacent community.
- Accident history for route segment 15 km {10 miles} in each direction from the proposed location.

6. PROPOSED PROJECT

Rehabilitation, New SRRA, Auxiliary Parking Facilities

A. Project Description

1) General

Provide a written description of the schematic plan for the proposed project. Discuss pertinent points of your proposal, including conformance with the SRRA Master Plan.

2) Context Appropriateness

Describe how the proposed architecture relates to the characteristic architectural style of the region. Materials used in a project should reflect the character of the area. Discuss community and stakeholder involvement and recommendations.

3) Utilities

Water system

Describe the identified source of potable water and related facilities such as storage tanks or treatment plant, and how they will be utilized.

Sewer system

Describe the sewage disposal system, with local agency regulations considered, and consideration of a trailer dump station.

• Electrical system

Describe the electric power source and how it will be utilized.

Telephone

Describe the telephone line source and how it will be utilized.

4) Agreements

Discuss any agreements with CHP, sheltered workshops, or Department of Rehabilitation for this site.

B. Schematic Site Plan

A Schematic Site Plan must be prepared for all New SRRA projects and for all SRRA Rehabilitation projects that involve demolition and replacement of existing comfort stations or the placement of new buildings. The schematic site plan must be of a scale sufficient to show the location and arrangement of all buildings, parking areas, walkways, benches, tables, picnic structures, lighting fixtures, public water faucets, trash receptacles, dumpster enclosures, kiosks, trees, lawn areas, and all other site elements that compose the design. Include the following:

• Ramps and Parking

Ramp, merge and diverge area geometric improvements required by current Department standard. Number of car and truck parking spaces; number of accessible parking spaces for persons with disabilities; area lighting; and signs (vehicular and pedestrian).

• Architectural Building Features

Include comfort stations, crew room, CHP facility, picnic tables, picnic tables with shelters, trash receptacles, dumpster enclosures, recycle containers, benches, information kiosks, vending machines, signs, and fencing. Include building footprints and elevations for the comfort stations.

Pedestrian Facilities

Include walks, curbs, lighting, drinking fountains, faucet assemblies, accessible features for persons with disabilities, and street washer boxes.

• Planting and Irrigation

Include turf, ground cover, trees, shrubs, erosion control, and plant establishment period.

Utilities

- Water system source and any related facilities.
- Sewer system facilities and trailer dump station.
- o Electrical system source.
- Telephone line source.

C. Privatization (New SRRA and Auxiliary Parking Facilities Only)

Describe what privatization efforts will be undertaken. Identify the corridor for the investigation. Include the dollar amount of private sector participation to be solicited and amount of Caltrans proposed participation. Provide the schedule for the investigation.

D. Project Cost Estimate

The PM should, in coordination with the Office of Transportation Architecture in DES, base the project cost estimates on experience with similar projects and available historical data. Unless the particulars of a specific case justify use of a different factor, a 20% contingency factor should be used for project cost estimates at this phase of work.

Include a cost breakdown for each of the major elements of the project. Break costs down as follows:

- Ramps and parking
- Architectural building work. Use a 25% contingency for architectural building work only. Contact DES Office of Transportation Architecture to obtain building estimate information.
- Pedestrian Facilities
- Utilities and utility connection fees.
- Landscaping
- Right of way costs (not included in cost of construction) if applicable
- Other

In addition to the project cost estimate, include a brief analysis and estimate of the annual maintenance costs, including maintenance requirements of permanent storm water pollution prevention treatment BMPs.

E. Alternatives

Give a brief discussion of alternatives that were considered but not selected.

SRRA Closure

Describe the closure proposal. Update the material provided in the PSR.

Describe the impact on the rest area system and environment including:

- The distance between adjacent rest areas after closure and impact on those rest areas.
- Availability and capacity of alternate safe, free, 24-hour public stopping opportunities for all vehicle types (differentiate between free, for-fee and customer-only opportunities).
- Consistency with current SRRA Master Plan.
- Description of stakeholder input.
- Closure concurrence by FHWA and conditions or requirements, including reimbursement, if any.

Provide a project cost estimate for the closure.

Discuss alternatives considered in lieu of closure including: rehabilitation, replacement, relinquishment to other agencies, operation by others, and obliteration.

7. CONSIDERATIONS REQUIRING DISCUSSION

A brief summary of the results of studies made in developing the proposal should be included.

A. Hazardous Materials

Update information from the PSR regarding whether hazardous materials including Aerially Deposited Lead (ADL), Naturally Occurring Asbestos (NOA) are present within both the project site and existing buildings, and recommended actions for avoidance or mitigation.

B. Traffic Management Plan (TMP) for Rehabilitation Only

Update information provided in the PSR. Discuss whether the rest area and comfort station building will remain open or be closed during construction. Discuss if there will be temporary facilities and how the temporary facilities will be handled. Discuss how closure will be handled and how the public will be notified if closure is the option.

C. NPDES Permit Requirements and Storm Water Pollution Prevention Update the Storm Water Data Report.

D. Utilities

The availability of utilities must be verified. Describe the source and proposed development of water; commercial electrical power; sewage system; and public telephone.

E. Right of Way

If right of way is required, explain the reasons, cost per hectare {acre}, and amount required, and future actions necessary to acquire it. If no new right of way is needed, the report should so indicate.

F. Environmental Compliance

For New Safety Roadside Rest Areas, Auxiliary Parking Facilities, and Closure, provide a description of environmental compliance issues and any mitigation required as a result of new rest area development, auxiliary parking facilities or the removal and reuse of rest area site.

The PR-SRRA should document any key environmental issues, findings, assumptions, and commitments made to stakeholders during the PA&ED phase of work to ensure these key concepts are incorporated in the built project.

Depending on the scope of work involved, Safety Roadside Rest Area projects may be classified as Categorically Exempt (CE) under CEQA and Categorically Excluded (CE) under NEPA, or may require preparation of an environmental document. The landscape architect should consult the District Environmental unit to determine which environmental document, if any, is required for the project. Safety Roadside Rest Area projects not considered CE under NEPA or CEQA must include preparation of an environmental document to complete the PA&ED phase of project delivery. The following statements must be included in the PR-SRRA where appropriate:

ND Projects
 (Negative Declaration – State Only Funded Projects)

For projects with a ND the following statement must be included:

The ND has been prepared in accordance with Caltrans environmental procedures. The attached ND is the appropriate document for the proposal.

The ND must be attached to the PR-SRRA.

ND/FONSI Projects
 (Negative Declaration/Finding Of No Significant Impact)

For projects with an ND/FONSI the following statement must be included:

The ND/FONSI has been prepared in accordance with Caltrans environmental procedures, as well as State and Federal environmental regulations. The attached ND/FONSI is the appropriate document for the proposal.

The ND/FONSI with the IS/EA must be attached to the PR-SRRA.

• For projects Statutorily Exempt from CEQA, the following statement must be included:

The project is Statutorily Exempt from CEQA.

• For projects Categorically Exempt (CE) from CEQA, the following statement must be included:

The project is Categorically Exempt under Class (*identify class*) of the CEQA guidelines.

• When appropriate, the following statement should be included:

The project is Categorically Excluded under NEPA.

Before approving a PR-HP&R that includes a CE statement, the approving authority must have received the CE form (signed by the Environmental Branch Chief), and must verify:

- 1) No scope changes have been made that would affect the exemption determination;
- 2) The project description, included on the CE form, corresponds with the PR.

The Environmental Branch Chief should be consulted with questions regarding this verification.

The *Standard Environmental Reference (SER)* Volume 1, Chapter 30 describes the criteria a proposed project must meet to be considered Categorically Excluded from NEPA, and the preparation and processing of the Categorical Exclusion (CE) documentation.

The *Standard Environmental Reference (SER)* Volume 1, Chapters 34, 35 and 36 describe the preparation and processing of CEQA-only Categorical Exemptions, Initial Studies, Negative Declaration and Environmental Impact Reports.

G. Impact to Adjacent Facilities

Discuss the impacts to adjacent rest areas or commercial facilities if the closure, rehabilitation, or construction of new rest areas is not completed.

8. OTHER CONSIDERATIONS AS APPROPRIATE

- Permits and other approvals required.
- Consistency with other planning.
- Railroad involvement.
- Cooperative Agreements Describe cooperative features, participants and responsibilities.

9. PROJECT SUPPORT

Update project capitol outlay support information provided in PSR. Include estimated PY effort and other support costs of project development and construction from the time the project is initially programmed through the final stages of construction. To ensure DES staff availability and timely project delivery, remember to coordinate the proposed schedule early with DES.

Proposed					Division of Engineering Service Center PYs				FY	Other	
Program	<u>Design</u>			Design Structures METS &		Offic	Total	Costs			
							Oth	ners	e		
		PYs							Engr		
			ı			ı		ı			
FY	Envir	Design	R/W	Const	Design	Const	Design	Const		PYs	(\$)
Total							<u>"</u>				
Total Estimated Project PYs and Other Support Cost:							PYs	\$*			

* Note: Dollar value of estimated specialty contracts, etc. to be shown only when applicable
COMMENTS:

10. PROGRAMMING/FUNDING/SCHEDULING

Identify the source of funding and proposed project milestone dates. Discuss any programming issues. Where appropriate, include time in the project schedule for environmental document and permit review.

11. **REVIEWS**

Summarize all major reviews and coordination within the Department and with other interested agencies and attach pertinent correspondence to the PR-SRRA.

Indicate type of Federal involvement, i.e., exempt, certification acceptance, or project by project.

12. PROJECT PERSONNEL

List the name and phone numbers (CALNET and public) for the Project Development Team leader, Project Manager, Project Engineer, Architect, Project Landscape Architect, District Landscape Architect, LAP Rest Area Coordinator, LAP District Coordinator, Design Coordinator, Project Development supervisor and senior, Environmental Branch Chief, right of way reviewer, FHWA reviewer, Maintenance representative, etc.

13. LIST OF ATTACHMENTS

• Strip map

This map should be of large enough scale to show the highway alignment and other human elements and natural features in the immediate vicinity.

- Schematic Site Plan
- Schematic Architectural Building Plans
- FHWA Concurrence Letter
- Approval letters
 - Certification from utility companies
 - Geometrics
 - Longitudinal encroachment, if applicable
- Basic Design Data Sheet
- Test data
 - Percolation test
 - Test hole data for well, water analysis
- Aerial Photographs
- Appropriate Correspondence
- Appropriate environmental documentation or determination, as outlined above
- Right Of Way Data Sheet
- Draft Cooperative Agreement (if applicable)
- PR Project Cost Estimate approved by PM
- Storm Water Data Report

Dist - Co - Rte, KP {PM} RU - EA Program Code

PROJECT REPORT

(Safety Roadside Rest Area Rehabilitation) or (New Safety Roadside Rest Area)

(Auxiliary Parking Facility)
(Safety Roadside Rest Area Closure)

Vi	cinity Map
	Show:
	Project limitsNorth Arrow
On Route	
From	
То	
	nation contained in this Project Report (Safety Roadside Sheet attached hereto, and find the data to be complete,
APPROVAL RECOMMENDED:	DEPUTY DISTRICT DIRECTOR – RIGHT OF WAY
	PROJECT MANAGER
	DISTRICT LANDSCAPE ARCHITECT
	DISTRICT MAINTENANCE
APPROVED:	
DISTRICT DIREC	TOR DATE

Dist - Co - Rte, KP {PM}

This Project Report (Safety Roadside Rest Area) has been prepared under the direction of the following licensed landscape architect. The licensed landscape architect attests to the technical information contained herein and the data upon which recommendations, conclusions, and decisions are based.

LICENSED LANDSCAPE ARCHITECT

DATE



This Project Report (Safety Roadside Rest Area) has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

REGISTERED CIVIL ENGINEER

DATE



Outline for PROJECT REPORT (Safety Roadside Rest Area)

Safety Roadside Rest Area Rehabilitation New Safety Roadside Rest Area Auxiliary Parking Facility Safety Roadside Rest Area Closure

Refer to ARTICLE 2-Item-by-Item Guidelines for PR-SRRA, located within this Appendix, for further explanation of the data to be provided in each topic outlined below.

1. INTRODUCTION

Type of Project Scope of Work Project Cost Estimate Program year and source of funding

2. RECOMMENDATION

3. BACKGROUND

SRRA Rehabilitation

Why project was initiated Highway description

Condition of facilities

Construction history

Maintenance

Context appropriateness

Commitments

Vending operations

Conformance with SRRA Master Plan

New SRRA & Auxiliary Parking Facility

Why project was initiated

Conformance with master plan/spacing

Highway description

Site feasibility

Context appropriateness

Opportunities for partnerships

SRRA Closure

Highway description

Condition of facilities

Construction history

Maintenance

Blind vending operations

4. CAPACITY ANALYSIS/DESIGN GUIDELINES (all projects)

Basic Design Data Sheet

5. NEED AND PURPOSE

SRRA Rehabilitation

Problems, needs or deficiencies

New SRRA & Auxiliary Parking Facility

Problems, needs or deficiencies

Parking deficiencies at adjacent rest areas

Unauthorized roadside parking

Accident history

Physical or environmental limitations

Gap in existing system

SRRA Closure

Justification for closure

Traffic volume

Rest area use

Parking deficiencies at adjacent rest areas

Unauthorized roadside parking

Accident history

6. PROPOSED PROJECT

SRRA Rehabilitation, New SRRA & Auxiliary Parking Facility

Project Description

Schematic Site Plan

Privatization Efforts (New SRRA & Aux. Pkg. Only)

Project Cost Estimate

Alternatives Considered

SRRA Closure

Description of closure

Impact of closure

Project Cost estimate

Alternatives considered in lieu of closure

7. CONSIDERATIONS REQUIRING DISCUSSION

Hazardous Material

Traffic Management Plan

NPDES Permit Requirements and Storm Water Pollution Prevention

Utilities

Right of Way

Environmental Impact

8. OTHER CONSIDERATIONS AS APPROPRIATE

- Permits and other approvals required.
- Consistency with other planning.
- Railroad involvement.
- Cooperative Agreements Describe cooperative features, participants and responsibilities.

9. PROJECT SUPPORT

- 10. PROGRAMMING, FUNDING AND SCHEDULING
- 11. REVIEWS
- 12. PROJECT PERSONNEL
- 13. LIST OF ATTACHMENTS

BASIC DESIGN DATA SHEET (Part 1)

LOCATIO	N				
	District	County	Rou	ıte	KP {PM}
SRRA NA	ME	ROUTE I	DIRECTION		
Design Da	<u>ta</u>		Current Year	<u>Desi</u>	gn Year (20 years
A. AADT	for the Route*				
B. Peak H	Iour ADT for the Route*				
C. Ramp	Count for SRRA*				
If AAD	ng Percentage (C/A, above Γ for the route is for both direct erves 1 direction, A must be div	ions and the			
(B x D	rea Design Hourly Volum , above) of stay in rest area (20 m		0.33 hour		0.33 hour
G. Total F	Parking Spaces (E x F, abo	ove)****			
H. Long V	Vehicles Percentage**				
I. Long V	Vehicle Parking Spaces (G	6 x H, above)			
J. Auto P	Parking Spaces (G-I, above	e)			
K. Users 1	per Hour (G x 2.2 people/	/vehicle)			
L. Adjust	ment for Bus Routes***				
M. Design	Usage per Hour (K + L,	above)			

^{*} Traffic and ramp counts are available on Traffic Operations web site at http://www.dot.ca.gov/hq/traffops/

^{**} Usually 30%. Adjust as necessary per District traffic recommendation.

^{***} Up to 10% increase for rest areas on major bus routes.

^{****} Maximum 120 parking spaces or reasonable carrying capacity of site.

BASIC DESIGN DATA SHEET (Part 2)

Comfort facilities, domestic water supply, irrigation water requirements should be determined by the sections directly involved in that portion of the work. The estimated demands should be indicated.

Comfort Facilities (provide name, or example, of section	on directly involved	l (as stated in	above paragraph)
for each requirement & define Ultimate) Design	<u>Ultimate</u>		
Water closets and urinals (men)			
Lavatories (men)			
Water closets (women)			
Lavatories (women)			
<u>Domestic Water Requirements</u> (Initial Development for Development)	or water is 100% of	f Ultimate)(de	fine Initial
Peak demand			_ L {gal} / min
Average Daily Demand (storage required)			_L {gal}
Peak daily demand			_L {gal}
Irrigation Water Requirements (Initial Development is	s 100% of Ultimate)	
Turf area (2 inches {50mm}/wk) (1.25gal/sqft /wk) {7	0,000 L/ha /day}		_ L {gal}
Trees and shrubs 51 L/day {15 gal / day}			_ L {gal}
Ground cover (50mm {2 inches} per week)			_ L {gal}
Initial Development is 100% of Ultimate			
Sewage Disposal Requirements (Initial Development	of sewers is 100%	of Ultimate)	
Daily Flow			_L {gal}
Size piping			_ mm {inches}